October 20, 1972 Dr. John Jefferies, Director University of Hawaii Institute for Astronomy 2840 Kolowalu Street Honolulu, Hawaii 96822 Dear John: My apologies for the long delay in the letter of recommendation for Dave Morrison. The letter is enclosed. With best wishes, Cordially, Carl Sagan CS/cls Enclosure

To Whom It May Concern: Dr. David Morrison, now at the Institute for Astronomy University of Hawaii, was my graduate student at Harvard University and worked as Research Associate with me at Cornell University. I have known him for eight years as student, teaching assistant, colleague and co-worker, and as a reviewer for Icarus, which I edit. Dr. Morrison is an extraordinarily able and energetic planetary scientist. His thesis work involved observational radio astronomy and theoretical infrared astronomy. He has now moved into observational infrared planetary astronomy and made a number of findings, particularly in the outer solar system, of very great interest. I know of no young astronomer who has professional observational capabilities in both radio and infrared astronomy and who is also adept at the theoretical interpretation of his results. Furthermore, Morrison is a clear thinker and an articulate speaker. I would strongly recommend him for membership in the International Astronomical Union. Cordially, Carl Sagan, Director Laboratory for Planetary Studies and Professor of Astronomy CS/cls

UNIVERSITY OF HAWAII Institute for Astronomy September 1, 1972 Office of the Director Professor Carl Sagan Space Sciences Building Cornell University Ithaca, New York 14850 Dear Carl: In order to recommend Dave Morrison for IAU membership I need two letters of reference and am writing to ask if you would be prepared to write one of these. The letter should be addressed to the US National Committee and should be sent to me for transmittal along with all the other material needed. Yours sincerely, John T. Jefferies Director JTJ/bb 2840 Kolowalu Street · Honolulu, Hawaii 96822 / Cable Address: UNIHAW